VOTING BLOCK FOR IDENTIFYING WLAN SIGNAL MODULATION TYPE

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ABSTRACT

A WLAN device operating in an 802.11g mode can receive signals of different modulations. A technique is provided that quickly and accurately identifies signals of different modulation types when received by the WLAN device. This technique includes beginning demodulation of the received signal using components associated with potential types of modulation. One or more identification values can be provided to a voting block for potential types of modulation based on the received signal. The voting block can advantageously determine the most probable modulation based on such identification value(s). At this point, components associated with the determined modulation can be used to correctly decode the received signal and components not associated with the determined modulation can be deactivated, thereby saving valuable power resources in the device.